

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949054

Luminaire Tested: **GALN-SB3D-935-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3D-935-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

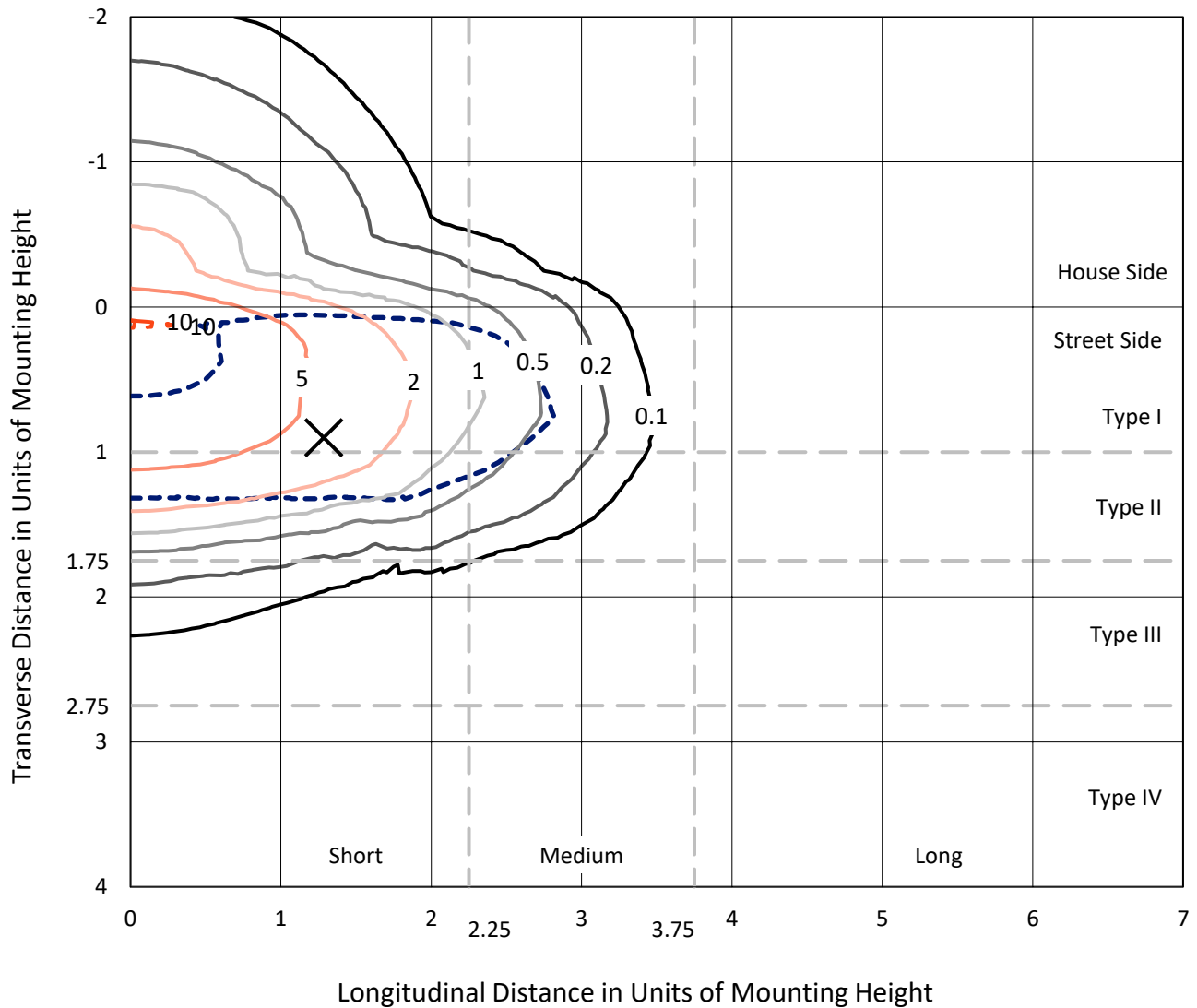
Lumens per Lamp: N/A  
Luminaire Lumens: 21601 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

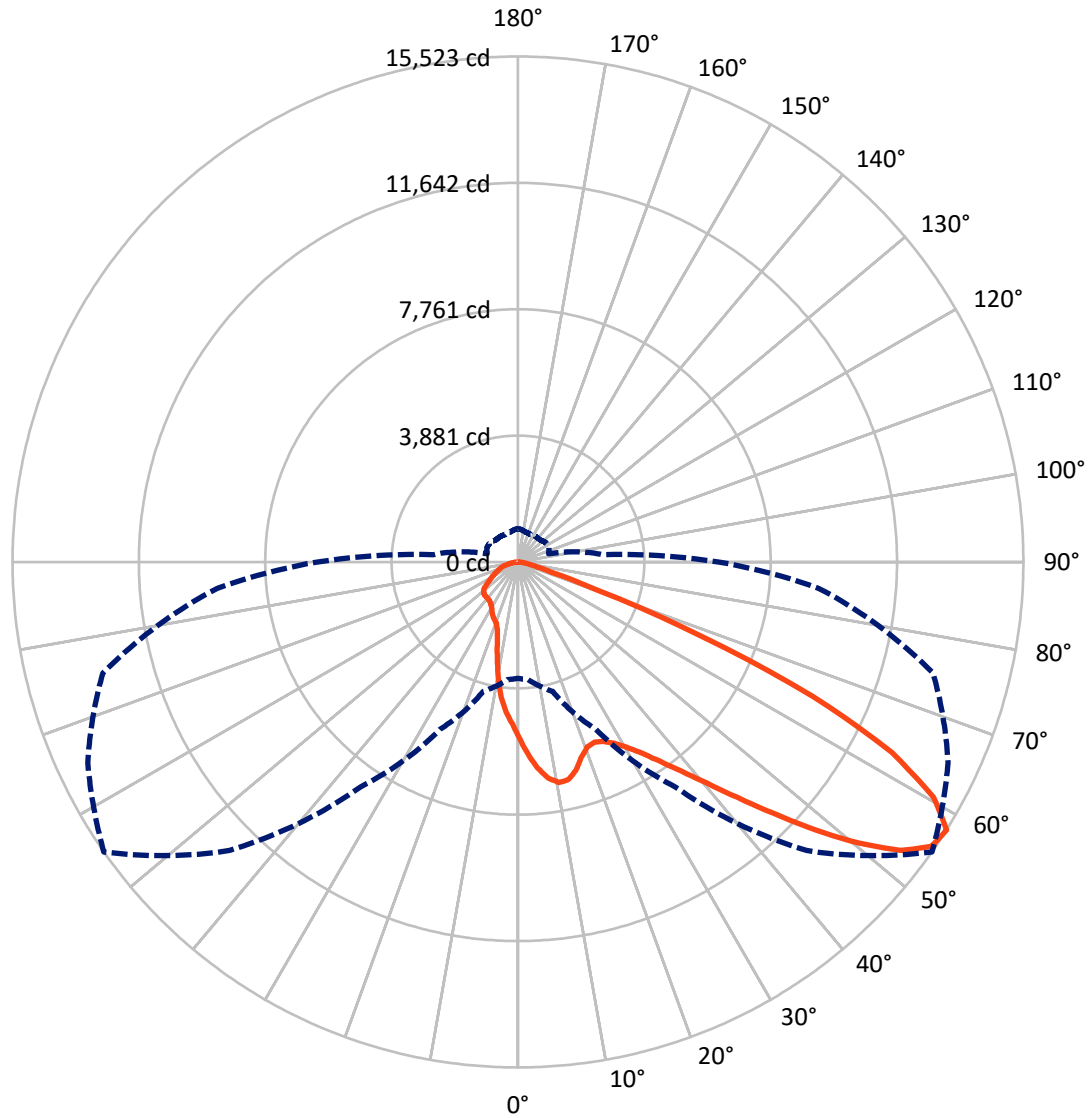
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3908.6   | 0.0    | 3908.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 17692.4  | 0.0    | 17692.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 21601.0  | 0.0    | 21601.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 502.2   | 2.3       |
| 10°-20°   | 1267.7  | 5.9       |
| 20°-30°   | 2022.9  | 9.4       |
| 30°-40°   | 3202.7  | 14.8      |
| 40°-50°   | 4902.1  | 22.7      |
| 50°-60°   | 5250.6  | 24.3      |
| 60°-70°   | 3303.2  | 15.3      |
| 70°-80°   | 976.8   | 4.5       |
| 80°-90°   | 172.7   | 0.8       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 21601.0 | 100.0     |
| 0°-180°   | 21601.0 | 100.0     |

**Coefficient of Utilization**



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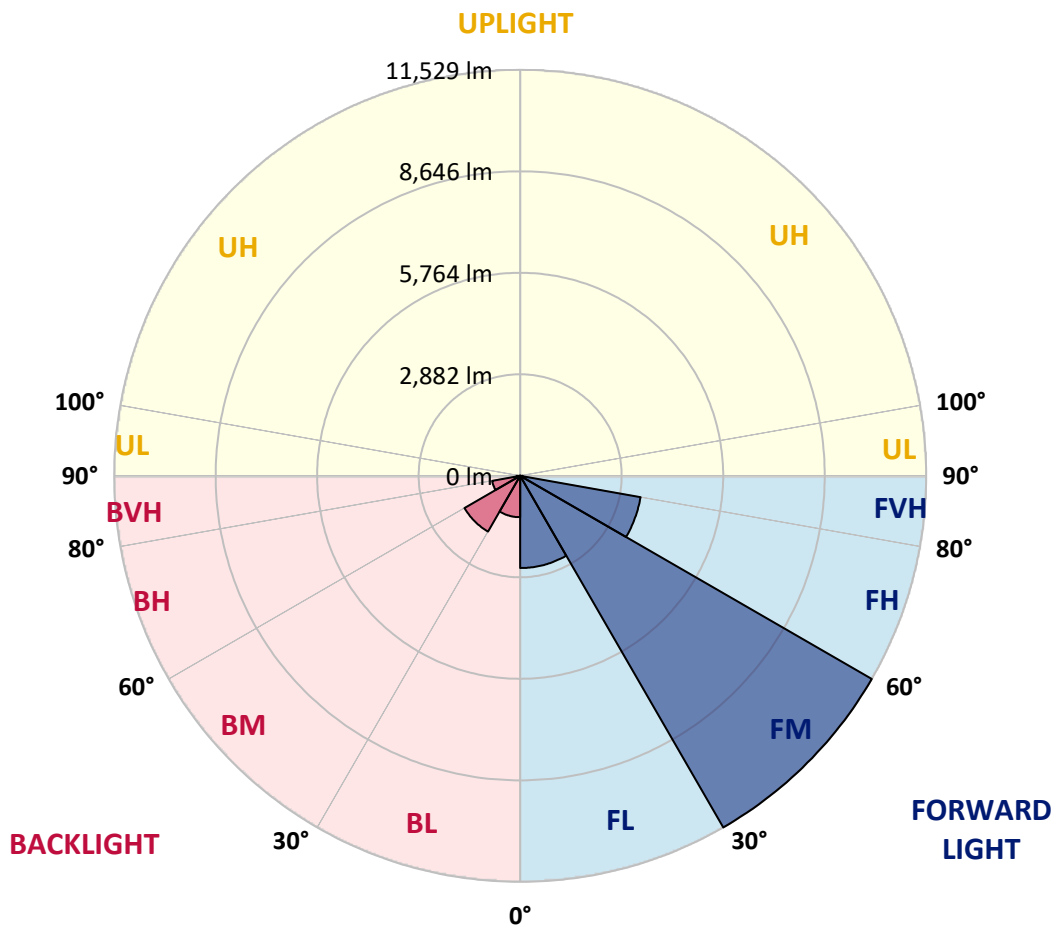
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2618.0  | 12.1      |                         |      |         |
| FM (30°-60°)   | 11528.6 | 53.4      |                         |      |         |
| FH (60°-80°)   | 3472.8  | 16.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 73.0    | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1174.8  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 1826.8  | 8.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 807.2   | 3.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 99.7    | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 5412.5  | 5412.5  | 5412.5  | 5412.5  | 5412.5  | 5412.5  | 5412.5  | 5412.5  | 5412.5  | 5412.5 |
| 2.5°  | 6209.8  | 6205.3  | 6229.9  | 6146.2  | 6089.2  | 6012.2  | 5910.5  | 5781.0  | 5641.4  | 5494.0 |
| 5°    | 6769.3  | 6730.2  | 6755.9  | 6693.3  | 6630.8  | 6514.7  | 6363.9  | 6152.9  | 5894.9  | 5601.2 |
| 7.5°  | 6681.0  | 6654.2  | 6720.1  | 6776.0  | 6822.9  | 6808.3  | 6697.8  | 6476.7  | 6143.9  | 5717.4 |
| 10°   | 5969.7  | 5939.6  | 6032.3  | 6225.4  | 6509.1  | 6755.9  | 6889.9  | 6752.5  | 6398.5  | 5844.7 |
| 12.5° | 5342.2  | 5327.6  | 5389.1  | 5545.4  | 5860.3  | 6333.8  | 6865.3  | 6993.7  | 6663.2  | 5995.4 |
| 15°   | 5074.2  | 5056.3  | 5095.4  | 5174.7  | 5375.7  | 5816.7  | 6642.0  | 7159.0  | 6923.4  | 6169.6 |
| 17.5° | 5015.0  | 4994.9  | 5011.6  | 5052.9  | 5182.5  | 5518.6  | 6304.7  | 7240.5  | 7194.7  | 6363.9 |
| 20°   | 5124.4  | 5107.7  | 5109.9  | 5107.7  | 5198.1  | 5465.0  | 6070.2  | 7209.2  | 7431.5  | 6542.6 |
| 22.5° | 5389.1  | 5361.1  | 5362.3  | 5303.1  | 5352.2  | 5558.8  | 6008.8  | 7125.5  | 7642.5  | 6698.9 |
| 25°   | 5820.1  | 5769.8  | 5779.9  | 5629.1  | 5615.7  | 5768.7  | 6104.8  | 7060.7  | 7852.4  | 6824.0 |
| 27.5° | 6409.7  | 6352.7  | 6322.6  | 6098.1  | 5990.9  | 6066.9  | 6300.3  | 7083.1  | 8051.2  | 6932.3 |
| 30°   | 7146.7  | 7077.5  | 7016.1  | 6697.8  | 6503.5  | 6475.6  | 6604.0  | 7230.5  | 8285.7  | 7046.2 |
| 32.5° | 8050.1  | 7969.7  | 7858.0  | 7435.9  | 7162.3  | 7016.1  | 6997.1  | 7492.9  | 8560.4  | 7191.4 |
| 35°   | 9125.4  | 9020.5  | 8861.9  | 8315.9  | 7969.7  | 7670.4  | 7515.2  | 7871.4  | 8936.7  | 7410.2 |
| 37.5° | 10233.2 | 10114.8 | 9969.6  | 9319.7  | 8894.3  | 8453.2  | 8147.2  | 8385.1  | 9438.1  | 7707.3 |
| 40°   | 11254.9 | 11122.1 | 10986.9 | 10408.5 | 9951.8  | 9420.2  | 8921.1  | 9035.0  | 10051.2 | 8062.4 |
| 42.5° | 11857.9 | 11759.7 | 11708.3 | 11395.6 | 11042.8 | 10503.4 | 9883.7  | 9805.5  | 10740.2 | 8471.1 |
| 45°   | 11831.1 | 11790.9 | 11949.5 | 12079.0 | 11995.3 | 11696.0 | 11011.5 | 10657.5 | 11431.4 | 8825.1 |
| 47.5° | 11199.1 | 11225.9 | 11579.9 | 12308.0 | 12628.4 | 12784.8 | 12295.7 | 11493.9 | 12032.1 | 9089.7 |
| 50°   | 9479.4  | 9501.8  | 10321.4 | 11891.4 | 12791.5 | 13672.5 | 13569.8 | 12310.2 | 12497.8 | 9251.6 |
| 52.5° | 8118.2  | 8132.7  | 8484.5  | 10656.4 | 12253.2 | 14119.2 | 14717.7 | 13079.6 | 12838.4 | 9296.3 |
| 55°   | 6114.9  | 6165.1  | 6559.3  | 8360.5  | 10852.9 | 13765.2 | 15416.8 | 13872.4 | 13053.9 | 9300.8 |
| 57.5° | 3572.2  | 3627.0  | 4113.8  | 5674.9  | 8435.3  | 12531.3 | 15522.9 | 14575.9 | 13200.2 | 9265.0 |
| 60°   | 1749.8  | 1773.3  | 1985.4  | 2982.6  | 5201.5  | 10153.9 | 14669.7 | 14916.5 | 13281.7 | 9246.0 |
| 62.5° | 1179.2  | 1175.9  | 1184.8  | 1471.8  | 2562.8  | 6523.6  | 12892.0 | 14320.2 | 13238.1 | 9173.5 |
| 65°   | 1013.9  | 1001.7  | 968.2   | 1032.9  | 1327.7  | 2983.7  | 9960.7  | 12540.2 | 12906.5 | 8991.4 |
| 67.5° | 876.6   | 877.7   | 878.8   | 858.7   | 948.1   | 1376.9  | 6087.0  | 9878.1  | 11716.1 | 8129.4 |
| 70°   | 725.8   | 735.9   | 740.4   | 740.4   | 772.7   | 903.4   | 2598.5  | 6770.4  | 9241.6  | 6374.0 |
| 72.5° | 661.1   | 639.9   | 642.1   | 630.9   | 630.9   | 687.9   | 1046.3  | 3838.0  | 5822.3  | 3585.6 |
| 75°   | 539.4   | 552.8   | 555.0   | 547.2   | 521.5   | 524.8   | 620.9   | 1610.2  | 2491.3  | 1487.4 |
| 77.5° | 465.7   | 465.7   | 470.1   | 464.5   | 444.4   | 393.1   | 414.3   | 624.2   | 847.6   | 609.7  |
| 80°   | 374.1   | 373.0   | 392.0   | 403.1   | 371.9   | 290.3   | 264.7   | 345.1   | 376.3   | 268.0  |
| 82.5° | 182.0   | 193.2   | 269.1   | 307.1   | 282.5   | 209.9   | 161.9   | 214.4   | 201.0   | 118.4  |
| 85°   | 106.1   | 100.5   | 120.6   | 170.9   | 161.9   | 116.1   | 78.2    | 111.7   | 105.0   | 60.3   |
| 87.5° | 33.5    | 31.3    | 24.6    | 58.1    | 46.9    | 32.4    | 21.2    | 32.4    | 29.0    | 13.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5412.5 | 0°    | 5412.5 | 5412.5 | 5412.5 | 5412.5 | 5412.5 | 5412.5 | 5412.5 | 5412.5 | 5412.5 | 5412.5 |
| 5430.4 | 2.5°  | 5351.1 | 5219.3 | 5088.7 | 4969.2 | 4896.6 | 4849.7 | 4802.8 | 4750.3 | 4730.2 | 4700.1 |
| 5444.9 | 5°    | 5297.5 | 5042.9 | 4816.2 | 4620.8 | 4443.2 | 4303.7 | 4163.0 | 4049.1 | 3997.7 | 4032.3 |
| 5490.7 | 7.5°  | 5266.2 | 4897.7 | 4548.2 | 4189.8 | 3844.7 | 3568.9 | 3328.8 | 3160.2 | 3084.2 | 3103.2 |
| 5535.3 | 10°   | 5238.3 | 4733.6 | 4200.9 | 3634.8 | 3139.0 | 2797.3 | 2551.6 | 2423.2 | 2375.2 | 2385.2 |
| 5595.6 | 12.5° | 5212.6 | 4549.3 | 3782.2 | 3037.3 | 2510.3 | 2284.7 | 2214.4 | 2215.5 | 2224.4 | 2231.1 |
| 5691.7 | 15°   | 5208.2 | 4327.1 | 3314.3 | 2514.7 | 2170.8 | 2156.3 | 2232.2 | 2280.2 | 2305.9 | 2313.7 |
| 5772.1 | 17.5° | 5201.5 | 4061.3 | 2837.5 | 2158.5 | 2088.2 | 2186.4 | 2256.8 | 2288.1 | 2308.2 | 2309.3 |
| 5850.2 | 20°   | 5174.7 | 3724.1 | 2397.5 | 1988.8 | 2070.3 | 2155.2 | 2198.7 | 2223.3 | 2240.0 | 2245.6 |
| 5909.4 | 22.5° | 5092.0 | 3348.9 | 2054.7 | 1912.9 | 1998.8 | 2067.0 | 2118.3 | 2146.2 | 2156.3 | 2163.0 |
| 5920.6 | 25°   | 4943.5 | 2929.0 | 1817.9 | 1840.3 | 1899.5 | 1985.4 | 2026.8 | 2032.3 | 2029.0 | 2039.0 |
| 5892.7 | 27.5° | 4749.2 | 2479.0 | 1670.5 | 1742.0 | 1817.9 | 1891.6 | 1914.0 | 1910.6 | 1903.9 | 1915.1 |
| 5844.7 | 30°   | 4514.7 | 2074.8 | 1576.7 | 1631.5 | 1735.3 | 1802.3 | 1822.4 | 1814.6 | 1801.2 | 1813.5 |
| 5820.1 | 32.5° | 4266.8 | 1744.2 | 1499.7 | 1554.4 | 1667.2 | 1733.1 | 1753.2 | 1745.4 | 1735.3 | 1745.4 |
| 5848.0 | 35°   | 4035.7 | 1513.1 | 1428.2 | 1503.0 | 1613.6 | 1678.4 | 1704.0 | 1705.2 | 1705.2 | 1717.4 |
| 5921.7 | 37.5° | 3823.5 | 1378.0 | 1369.0 | 1470.7 | 1576.7 | 1634.8 | 1671.7 | 1673.9 | 1625.9 | 1629.2 |
| 6046.8 | 40°   | 3627.0 | 1321.0 | 1342.2 | 1449.4 | 1541.0 | 1596.8 | 1599.1 | 1474.0 | 1385.8 | 1383.6 |
| 6189.7 | 42.5° | 3466.2 | 1309.9 | 1350.1 | 1447.2 | 1515.3 | 1517.6 | 1360.1 | 1263.0 | 1238.4 | 1239.5 |
| 6321.5 | 45°   | 3315.4 | 1306.5 | 1367.9 | 1447.2 | 1477.4 | 1311.0 | 1204.9 | 1179.2 | 1181.4 | 1190.4 |
| 6380.7 | 47.5° | 3146.8 | 1293.1 | 1371.3 | 1427.1 | 1367.9 | 1165.8 | 1134.5 | 1123.4 | 1118.9 | 1121.1 |
| 6367.3 | 50°   | 2962.5 | 1245.1 | 1328.8 | 1386.9 | 1180.3 | 1103.3 | 1064.2 | 1060.8 | 1066.4 | 1069.8 |
| 6292.4 | 52.5° | 2768.2 | 1166.9 | 1256.3 | 1314.3 | 1094.3 | 1048.6 | 1005.0 | 1012.8 | 1037.4 | 1045.2 |
| 6214.3 | 55°   | 2640.9 | 1075.4 | 1160.2 | 1169.2 | 1034.0 | 997.2  | 960.3  | 978.2  | 1024.0 | 1038.5 |
| 6167.4 | 57.5° | 2607.4 | 978.2  | 1050.8 | 1040.7 | 957.0  | 952.5  | 930.2  | 945.8  | 1003.9 | 1025.1 |
| 6165.1 | 60°   | 2597.4 | 891.1  | 943.6  | 935.8  | 882.2  | 903.4  | 897.8  | 905.6  | 925.7  | 932.4  |
| 6142.8 | 62.5° | 2519.2 | 821.9  | 847.6  | 836.4  | 815.2  | 852.0  | 865.4  | 848.7  | 864.3  | 872.1  |
| 5989.8 | 65°   | 2320.4 | 766.0  | 753.8  | 745.9  | 754.9  | 788.4  | 815.2  | 781.7  | 796.2  | 818.5  |
| 5400.2 | 67.5° | 1992.1 | 690.1  | 656.6  | 665.5  | 693.5  | 711.3  | 745.9  | 708.0  | 720.3  | 758.2  |
| 4349.4 | 70°   | 1611.4 | 594.1  | 563.9  | 589.6  | 616.4  | 653.3  | 658.8  | 633.2  | 662.2  | 704.6  |
| 2654.3 | 72.5° | 1140.1 | 496.9  | 475.7  | 528.2  | 537.1  | 585.1  | 572.9  | 560.6  | 600.8  | 615.3  |
| 1312.1 | 75°   | 790.6  | 400.9  | 388.6  | 428.8  | 461.2  | 502.5  | 493.6  | 508.1  | 593.0  | 599.7  |
| 655.5  | 77.5° | 500.3  | 311.6  | 303.7  | 329.4  | 374.1  | 419.9  | 434.4  | 599.7  | 1012.8 | 1053.0 |
| 340.6  | 80°   | 290.3  | 232.3  | 223.3  | 243.4  | 282.5  | 325.0  | 418.8  | 735.9  | 667.8  | 660.0  |
| 153.0  | 82.5° | 161.9  | 159.7  | 148.5  | 154.1  | 188.7  | 234.5  | 591.8  | 518.1  | 421.0  | 434.4  |
| 61.4   | 85°   | 75.9   | 93.8   | 80.4   | 77.1   | 106.1  | 274.7  | 395.3  | 295.9  | 196.5  | 192.1  |
| 13.4   | 87.5° | 20.1   | 17.9   | 17.9   | 20.1   | 44.7   | 236.7  | 157.5  | 126.2  | 74.8   | 72.6   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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